

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
15 April 2004 (15.04.2004)

PCT

(10) International Publication Number  
**WO 2004/031410 A2**

(51) International Patent Classification<sup>7</sup>: C12Q 1/68

(21) International Application Number:  
PCT/JP2003/011711

(22) International Filing Date:  
12 September 2003 (12.09.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
60/414,677 30 September 2002 (30.09.2002) US

(71) Applicants (for all designated States except US): ON-  
COTHERAPY SCIENCE, INC. [JP/JP]; 3-16-13,  
Shirokanedai, Minato-ku, Tokyo 108-0071 (JP). JAPAN  
AS REPRESENTED BY THE PRESIDENT OF  
THE UNIVERSITY OF TOKYO [JP/JP]; 3-1, Hongo  
7-chome, Bunkyo-ku, Tokyo 113-8654 (JP).

(72) Inventors; and

(75) Inventors/Applicants (for US only): NAKAMURA,  
Yusuke [JP/JP]; 17-33, Azamino 1-chome, Aoba-ku,  
Yokohama-shi, Kanagawa 225-0011 (JP). KATAGIRI,  
Toyomasa [JP/JP]; 2-10-11-305, Higashigotanda, Shina-  
gawa-ku, Tokyo 141-0022 (JP).

(74) Agents: SHIMIZU, Hatsushi et al.; Kantetsu Tsukuba  
Bldg. 6F, 1-1-1, Oroshi-machi, Tsuchiura-shi, Ibaraki 300-  
0847 (JP).

(81) Designated States (national): AE, AG, AL, AM, AT, AU,  
AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU,  
CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE,  
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC,  
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW,  
MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC,  
SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA,  
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM,  
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE,  
ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO,  
SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM,  
GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Declarations under Rule 4.17:**

- as to the applicant's entitlement to claim the priority of the  
earlier application (Rule 4.17(iii)) for all designations
- as to the applicant's entitlement to claim the priority of the  
earlier application (Rule 4.17(iii)) for all designations

**Published:**

- without international search report and to be republished  
upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: METHOD FOR DIAGNOSING TESTICULAR SEMINOMAS

(57) Abstract: Objective methods for detecting and diagnosing testicular seminoma (TS) are described herein. In one embodiment, the diagnostic method involves the determining a expression level of TS -associated gene that discriminate between TS and normal cell. The present invention further provides methods of screening for therapeutic agents useful in the treatment of TS, methods of treating TS and method of vaccinating a subject against TS.

WO 2004/031410 A2